

» AIR TREATMENT

eCO TOP & eCO SIDE

# eCO TOP & eCO SIDE

» COMPACT AIR HANDLING UNIT RANGE < 3,240 m<sup>3</sup>/h





## Energy efficiency – the essence of our solutions

All our research, development and testing activities are singularly focused to provide our customers with the best and most efficient solutions possible to their ventilation and indoor climate challenges.

From new and innovative concepts, smart material choices and manufacturing processes to advanced controls, minimised running cost and easy maintenance, FläktGroup always strive to deliver the best for your long-term economy and our environment.



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# eCO TOP & eCO SIDE

## – SLEEK AND FLEXIBLE DESIGN WITH LOW RUNNING COSTS

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In modern buildings fresh air at comfortable temperature is supplied by energy efficient Air Handling Units (AHU's) from FläktGroup. With a century of experience in supplying innovative and energy efficient solutions including the best energy recovery, FläktGroup helps you to keep energy costs for heating and cooling at a minimum.

With eCO Top and eCO Side it is easy to find the optimum AHU for air flows up to 3,240 m<sup>3</sup>/h – simply choose between Top or Side connected ducts and exits and three sizes.

As part of our Compact AHU Range the eCO Top and eCO Side have been designed to suit installations in light commercial buildings such as restaurants, offices, schools and gyms. With such installations in mind our engineers have focused on three main criteria during development of the product:

- 1 To make the unit flexible for installations and retrofits in public rooms and tight spaces**
- 2 To make commissioning as easy as possible for the installers**
- 3 To lower running energy costs in the property through optimised energy efficiency.**



## KEY FEATURES

**eCO Top and eCO Side are perfect choices for light commercial spaces such as offices, gyms, schools and restaurants, where flexibility, energy efficiency, low noise and discrete design are paramount.**

- Top or side connected ducts, pipes and cables
- Three sizes for air flows up to 3,240 m<sup>3</sup>/h.
- Rotary heat exchanger with up to 85% energy recovery
- Counterflow plate heat exchanger with up to 83% energy recovery
- State of the art energy performance, fulfilling Eco Design
- VDI6022 hygiene standard
- T2/TB2

# Easy all the way – from product selection to commissioning



**EASY TO TRANSPORT**

- Fits through 900 mm opening
- Tracks for forklifts



**EASY TO POSITION**

- Compact
- Low sound level
- Attractive design
- Compliant to VDI 6022



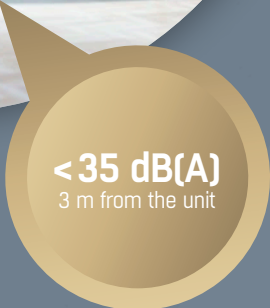
**EASY TO INSTALL**

- Preconfigured controls
- Integrated silencers & battery
- Pre-assembled sensors



**EASY TO CONFIGURE**

- Touch screen display unit – ISYteq Touch 7.1
- Commissioning wizard



# A more **flexible installation** with eCO TOP or eCO SIDE **in buildings** without dedicated plant rooms



## **FLEXIBLE LOCATION**

Top or side connections offer a small unit footprint which ensures optimum use of the floor space. Thanks to a white-painted exterior and optional cover plates the unit offers many placement options in both new-build and retrofit applications. In addition both eCO Top and eCO Side meet the VDI 6022 hygiene standard and are approved for T2/TB2.

## **TOP ENERGY PERFORMANCE**

For FläktGroup, optimising the energy efficiency of our products is in our DNA. eCO Top and eCO Side have been designed from the outset to feature the most modern and efficient fans and energy recovery rotors on the market.

## **VERY LOW NOISE LEVELS**

Thanks to the unique and excellent sound performance of eCO Top and eCO Side, the units are suitable for installations in public and semi-public spaces where normally AHU's can not be installed. Maximum flexibility delivered by FläktGroup.

VDI  
6022



T2/TB2



# THE DETAILS OF A TOP PERFORMER

Flexibility is key. Choose eCO Top for top connections or eCO Side with all connections on the side. Both can be delivered with water coil, electrical heater or without.



**ISYteq**  
TOUCH 7.1  
by FLÄKTGROUP

## EASY TO INSTALL AND COMMISSION

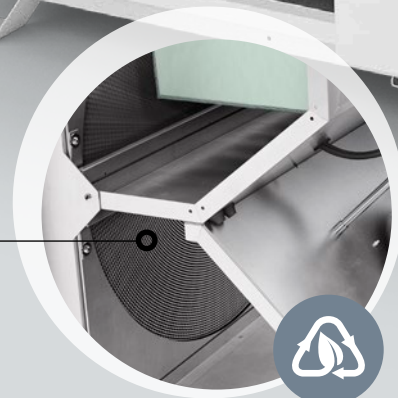
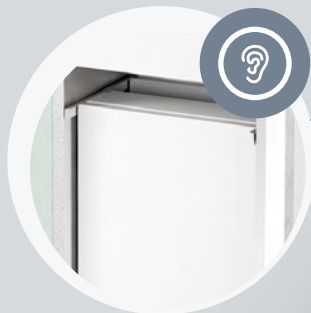
Easy access to the connections and setup of all parameters via ISYteq Touch 7.1, through a specifically developed commissioning wizard, means that eCO Top and eCO Side are simple to install, which saves both time and money. Connection to Modbus, BACnet or integrated web server.

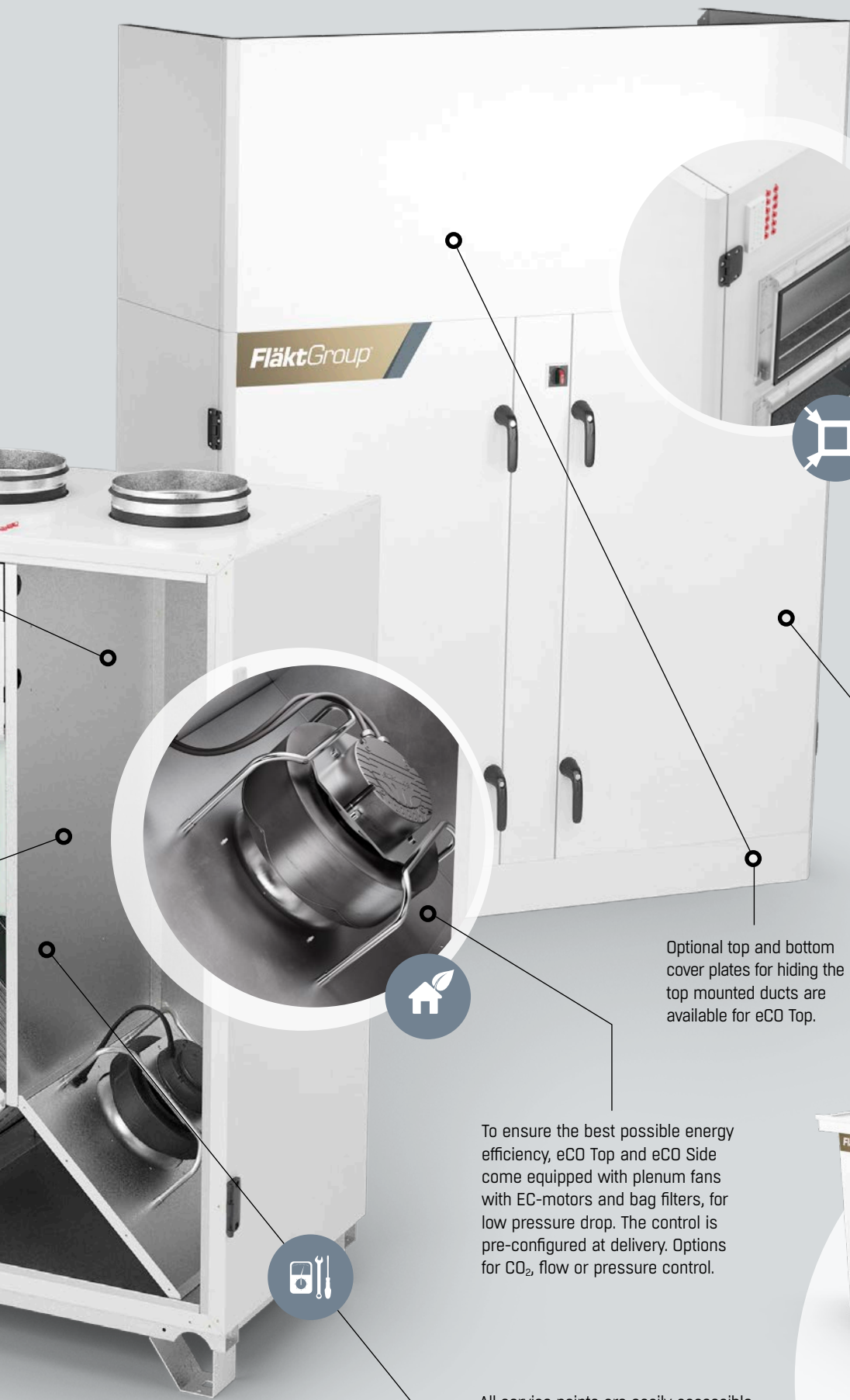
50 mm casing with mineral wool insulation minimises noise.

For even lower levels, optional integrated silencers are available for the top connected version.

FläktGroup **Regoterm** and **RegAsorp** rotary heat exchanger with 270 mm width for best ratio between heat recovery and pressure drop. Also available with counterflow plate heat exchanger

Both options are available with standard efficiency for low pressure drop or high efficiency for high temperature efficiency.





FläktGroup



The installation of all ducts, pipes and cables are easily performed from the top or side for easy access and a minimised footprint. Thanks to the compact dimensions, eCO Top and eCO Side fit through a standard 900 mm opening.



Optional top and bottom cover plates for hiding the top mounted ducts are available for eCO Top.

The external design, with a white painted finish, is well suited for installation in public areas.



To ensure the best possible energy efficiency, eCO Top and eCO Side come equipped with plenum fans with EC-motors and bag filters, for low pressure drop. The control is pre-configured at delivery. Options for CO<sub>2</sub>, flow or pressure control.

All service points are easily accessible through the two wide front doors.

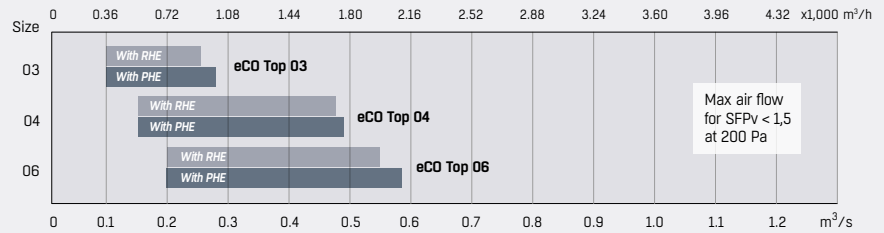


**eCO Side can also be supplied for outdoor installation.**

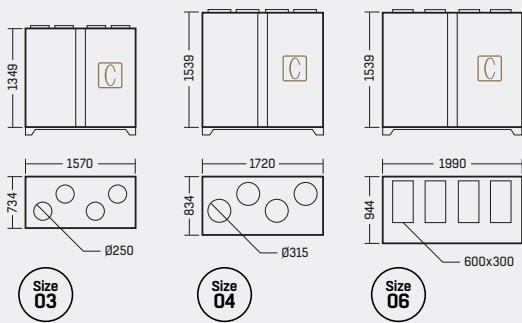
# A compact range covering 360 to 3,240 m<sup>3</sup>/h



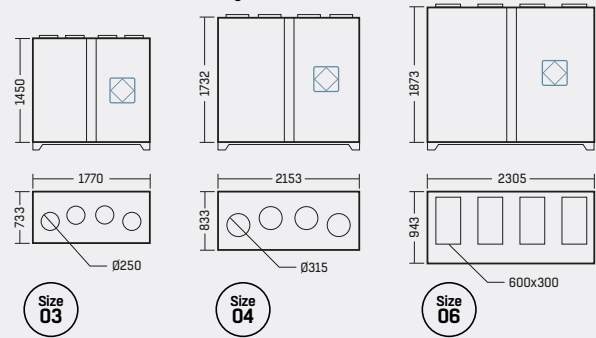
## Air flow for eCO Top



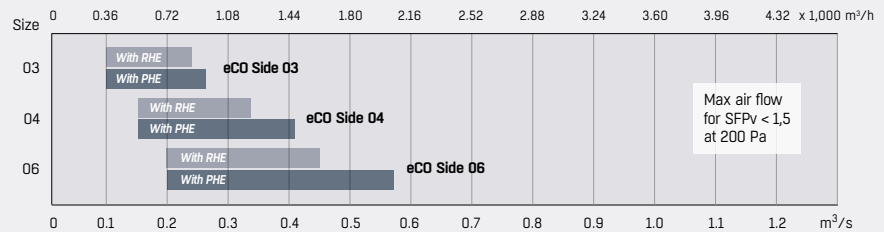
### With Rotary Heat Exchanger



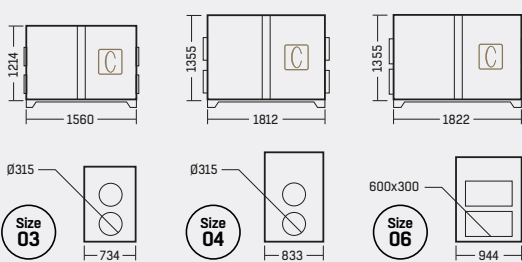
### With Counterflow Plate Heat Exchanger



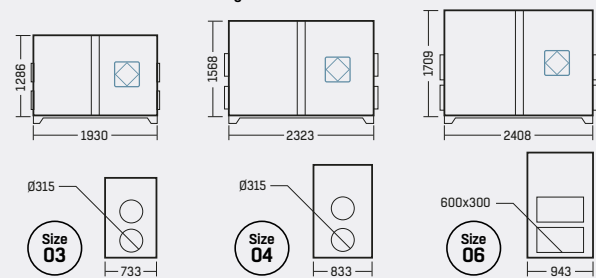
## Air flow for eCO Side



### With Rotary Heat Exchanger



### With Counterflow Plate Heat Exchanger





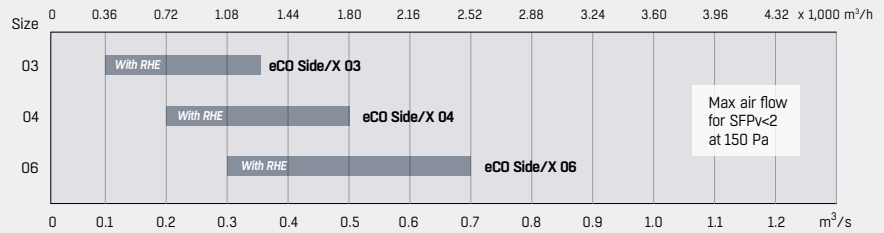


In addition to the eCO Top and Side units, we offer the compact AHU's eQ Top and eQ Prime, from our eQ range. Together they cover air flows of 360–21,600 m<sup>3</sup>/h and are suitable for a wide range of applications.

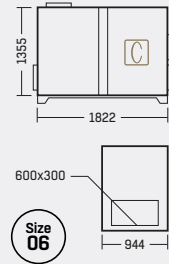
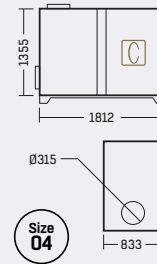
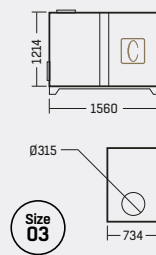
> See [www.flaktgroup.com](http://www.flaktgroup.com) for an overview of our complete AHU range



### Air flow for eCO Side/X



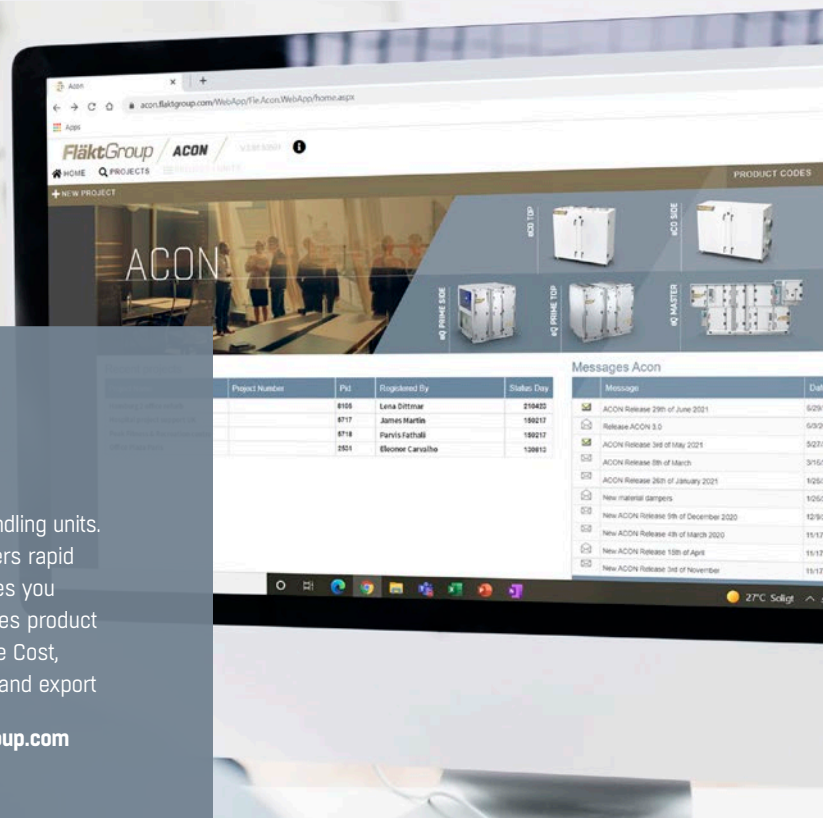
With Rotary Heat Exchanger



## Choose the right model quick and easy with Acon

ACON® is a powerful and easy product selection tool for air handling units. It is the best and most advanced of its kind on the web. It offers rapid product selection to specific project requirements and provides you with all the relevant technical information. Functionality includes product dimensions, performance, noise and efficiency data, Life Cycle Cost, product documentation, including custom specification texts, and export of dxf and dwg files.

>> [flaktgroup.com](http://flaktgroup.com)



# Is a plant room always necessary?

Decentralised ventilation allow you to easily customise and adapt your property to suit different needs. But in order to choose the right solution for every application it is necessary to carefully evaluate your building's characteristics and how it will be used. How is it used today? How will it be used in 5 years time? eCO Top and eCO Side offer great flexibility, to realise opportunities, to not only save money, but also increase the earning potential of your building.



Free up **commercial space!**

The compact eCO TOP and eCO SIDE lets you do more with your space

By eliminating even a very small plant room of 12 m<sup>2</sup>, and converting the gained area of approx. 8 m<sup>2</sup>, to commercially rentable space, quickly turns into a sizeable revenue increase.

Rental income per m <sup>2</sup> /month	€30
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Accumulated income 10 years	€28,800
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## We are a complete partner

With a uniquely broad product offering, FlaktGroup are specialists at providing optimised complete solutions for your application. Whether you are designing an office, restaurant, multi dwelling or a cruise ship, there are FlaktGroup specialists ready to support your project. Below are only a few of the products that perfectly compliment the eCO Top and eCO Side units.



EMSS flow variator



Activent Air Distribution System



Wega II Active Chilled Beam



Optimix Active Air Diffuser



Optivent Ultra VAV Damper



Cleanvent-coated Air Valves

## The benefits of eCO TOP & eCO SIDE



### END USER/BUILDING OWNER

- **Flexibility:** Simplified connection, small footprint and flexible installation
- **Connectivity:** Easy to connect to ISYteq Cloud and get full overview of the unit wherever you are
- **Compact:** Perfect for new-build or retrofit projects
- **Design:** White painted finish for location in public areas; cover plates for hiding of top mounted ducts are available
- **Low sound:** Well insulated unit and the best components ensure very low sound levels
- **Low running costs:** Energy efficient components save operating costs, including complete controls package for optimised energy performance and comfort



### CONSULTANT

- High heat recovery and low SFPV make it easy to fulfill regulations
- Placement flexibility
- Customised performance values are easily calculated in ACON
- Eco Design compliant
- VDI 6022 hygiene standard
- T2/TB2



### CONTRACTOR

- Easy installation with top or side connections and wide front doors
- Passes through a standard 900 mm opening
- Controller is pre-configured at delivery
- Commissioning via ISYteq Touch 7.1 interface, commissioning wizard for easy adjustment of operating parameters

## EXCELLENCE IN SOLUTIONS

WWW.FLAKTGROUP.COM

eCO TOP & eCO SIDE 9954GB

FläktGroup is the European market leader for smart and energy efficient Indoor Air and Critical Air solutions to support every application area. We offer our customers innovative technologies, high quality and outstanding performance supported by more than a century of accumulated industry experience. The widest product range in the market, and strong market presence in 65 countries worldwide, guarantee that we are always by your side, ready to deliver Excellence in Solutions.

### PRODUCT FUNCTIONS BY FLÄKTGROUP

Air Treatment | Air Movement | Air Diffusion  
Air Distribution | Air Filtration | Air Management & ATD's  
Air Conditioning & Heating | Controls | Service



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or contact one of our offices